

FWA-3080

1U Network Appliance with Ryzen™ 7000 Series / EPYC™ 4005 Series Processors for Network Security and Edge



Features

- AMD Ryzen™ 7000 Series / EPYC™ 4005 Series processor
- 4 x DDR5 5600 MT/s UDIMM up to 128GB with ECC / NON-ECC
- 8 x onboard 1GbE Ethernet ports with 2 pairs LAN bypass
- 2 x Network Mezzanine Card slots
- 2 x M.2 2280 SSD sockets
- 2 x 2.5" internal SATA HDDs/SSDs drive bay
- Advantech IPMI 2.0 with Redfish support

Specifications

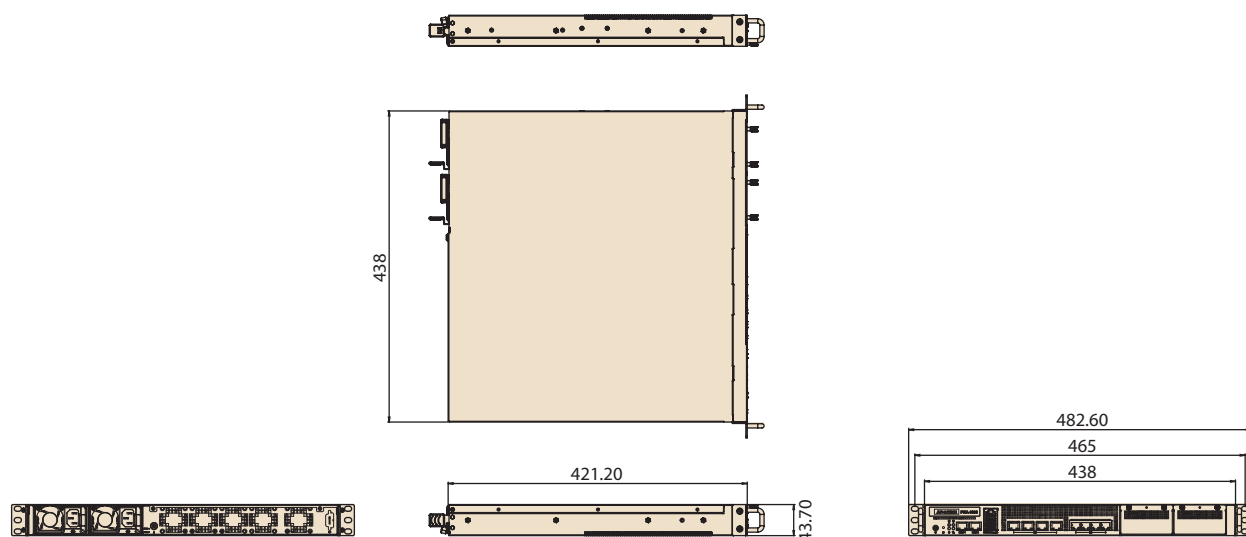
System P/N		FWA-3080R-00A1RU	FWA-3080H-00A1SU
Form Factor		1U	
Processor System	Processor	AMD Ryzen™ Embedded 7000 / EPYC™ 4005, Max. up to 65W	
	Core Count	16	
	Base Frequency	3.8GHz	
	Chipset	B650	
	BIOS	AMI UEFI	
Virtualization			
Memory	Technology	DDR5, up to 5600 MT/s	
	Max. Capacity	128GB (32GB per slot)	
	Socket	4 x 288-Pin DIMM	
	ECC Support	Yes (ECC / Non-ECC)	
Networking	Controller	2 x I350-AM4 2 x I210-AT	
	1GbE	8 x 1GbE RJ45 (4 x 1GbE SFP by project base)	
	LAN Bypass	Two pairs LAN Bypass	
Expansion Slot	PCIe x8	1 (Gen 4, FH/HL)	
	NMC	2 (PCIe Gen4 x 8)	
IPMI		IPMI 2.0 and Redfish compliant 2 x shared 1GbE MGMT LAN for IPMI port	N/A 2 x 1GbE MGMT LAN Port
Storage	2.5" Bay	2 x SATA HDD/SATA SSD	
	M.2	2 x 2280 M.2 M-key slot for SATA SSD	
I/O	Console	1 x RJ45 type console	
	USB	2 x USB 3.2 Gen2 ports	
	LED Indicator	1 x SW-defined LED (Amber/Green)	
		1 x Alert LED by IPMI (Amber)	
		1 x HDD LED (Green)	
		1 x Power (Green)	
	Display	1 x VGA port	
	Button	1 x Power button 1 x SW-defined button	
TPM		Support by TPM 2.0 module (Optional)	
Power Supply	Power Type	AC Redundant	AC Single
	Watts	300W	300W
	Input	100-240 V	
	Connector	AC 3pin plug	AC 3pin plug
Environment	Operating Temperature	0 ~ 40 °C (32 ~ 104 °F)	
	Non-operating Temperature	-40 ~ 70 °C (-40 ~ 158 °F), 60 °C@95% Non-Condensing Humidity	
	Vibration Resistance (Operation)	5-500 Hz, 0.3 Grms, 3 axes, 1 hr/per axis	
	Shock Protection (Operation)	10 G, 11 ms	
Cooling		5 x System fans with smart fan feature	

Specifications (Cont.)

Mechanical	Construction	SGCC
	Mounting	Rackmount
	Dimensions (W x H x D)	438 x 43.7 x 421.20 mm (17.24" x 1.72" x 16.58")
	Weight	6.53 kg (14.39 lb) G.W.
OS Support	Linux (Ubuntu)	
Advantech S/W Packages	ALBPCU ipmitool Server iManager (Linux base) - Network device identifier (NDI)	
Certification	EMC/Safety	CE, FCC, CB, UL, CCC

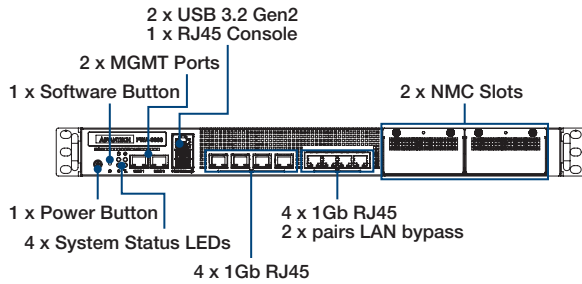
Dimensions

Unit: mm

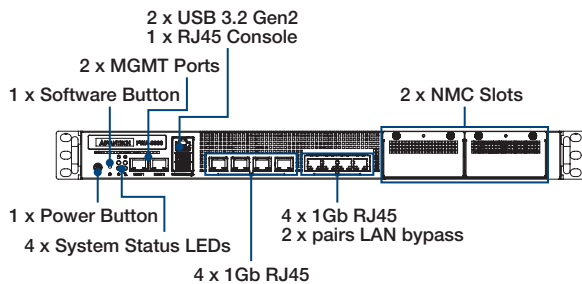


Front Panel External I/O Mechanical Layout/Drawing

FWA-3080R-00A1RU

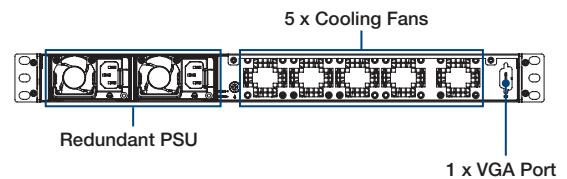


FWA-3080H-00A1SU

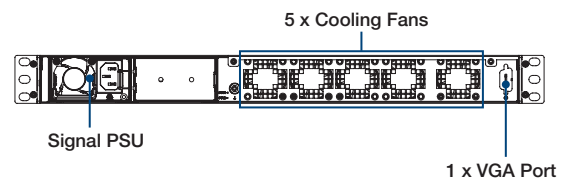


Rear Panel External I/O Mechanical Layout/Drawing

FWA-3080R-00A1RU



FWA-3080H-00A1SU



Ordering Information

Part Number	Processor	DDR5	PCH	NMC Slot	PCIe Slot	Storage Bay	USB3.0	IPMI	MGMT Port	Console Port	LAN Port 1G RJ45	System Fan	PSU
FWA-3080R-00A1RU	AMD Ryzen™ Embedded 7000 / EPYC 4005	4	B650	2	1	2	2	YES	2	1	8	5	2
FWA-3080H-00A1SU	AMD Ryzen™ Embedded 7000 / EPYC 4005	4	B650	2	1	2	2	N/A	2	1	8	5	1

Packing List

Part Number	Description	Quantity
1700020691-01	Console cable D-SUB 9P(F)/RJ45 220cm	1
1960086225T004	Rack mount brackets	2
1700034038-01/ 1700020513-21	SATA cable kits	2
1970006374N001	CPU heatsink	1

Optional Accessories

Part Number	Description
1702002600	Power cord 3P 180 cm, USA
1702002605	Power cord 3P 180 cm, Europe
1702031801	Power cord 3P 180 cm, UK
1700000237	Power cord 3P 180 cm, JP
1700009652	Power cord 3P 180 cm, China
968DE00026	Slide rail_USH-40SVH635-AD1_Martas
FWA-3050-800WPSU	800W DC Power kit
1700027334-01	USB for RJ45 console cable, 190cm
PCA-TPMSPI-00A1	TPM 2.0 Module by SPI for CPU cards, A101-1